

IN THE CLAIMS

Please amend the claims as follows:

✓ Claims 1-4 (canceled)

Claim 5 (currently amended): ~~[[The]]~~ A radio communication system, of claim 4,  
wherein comprising:

a plurality of radio base stations having respective service areas;

a mobile radio terminal configured to transmit a data transmission request through one  
radio base station and receive requested data through at least one radio base stations; and

a radio control station connected with the radio base stations and having:

a moving route prediction unit configured to predict a moving route of the  
mobile radio terminal according to a terminal location information obtained from the  
mobile radio terminal upon receiving the data transmission request; and

a server unit configured to select those radio base stations which have service  
areas containing at least a part of the moving route predicted by the moving route  
prediction unit, and deliver the requested data to selected radio base stations,

wherein each radio base station has:

a beam formation unit configured to simultaneously form a plurality of space  
dividing beams; and

an antenna device having a plurality of antenna elements configured to send  
the requested data to the mobile radio terminal by transmitting one of the plurality of  
space dividing beams toward the mobile radio terminal, the antenna device of each  
radio base station controls controlling a directivity of one of the antenna elements  
toward a direction of a location at which the mobile radio terminal will stop when a

U<sup>2</sup>  
service area of each radio base station contains the location at which the mobile radio terminal will stop.

✓  
Claims 6-8 (canceled)

Q<sup>3</sup>  
Claim 9 (currently amended): [[The]] A radio control station of claim 6, in a radio communication system formed by a plurality of radio base stations having respective service areas and a mobile radio terminal configured to transmit a data transmission request through one radio base station and receive requested data through at least one radio base station, the radio control station comprising:

a moving route prediction unit configured to predict a moving route of the mobile radio terminal according to a terminal location information obtained from the mobile radio terminal upon receiving the data transmission request from the mobile radio terminal through the one radio base station; and

a server unit configured to select those radio base stations which have service areas containing at least a part of the moving route predicted by the moving route prediction unit, and deliver requested data to selected radio base stations,

wherein the server unit estimates a transmittable data amount indicating an amount of data that can be transmitted to the mobile radio terminal at each selected radio base station, and determines a delivery data amount indicating an amount of data to be delivered to each selected radio base station according to the transmittable data amount estimated for each selected radio base station.

Claim 10 (original): The radio control station of claim 9, wherein the server unit estimates the transmittable data amount according to a product of a time for which the mobile

radio terminal stays within the service area of each selected radio base station and a data transmission speed between each selected radio base station and the mobile radio terminal.

Q3  
cont  
Claim 11 (original): The radio control station of claim 9, wherein the server unit also judges whether the mobile radio terminal will stop on the moving route predicted by the moving route prediction unit or not, and estimates additional transmittable data amount indicating an amount of data that can be transmitted to the mobile radio terminal at each selected radio base station while the mobile radio terminal is stopping, when it is judged that the mobile radio terminal will stop.

Claim 12 (original): The radio control station of claim 11, wherein the server unit increases the delivery data amount for a radio base station having a service area that contains a location at which the mobile radio terminal will stop, according to the additional transmittable data amount.

Claim 13 (original): The radio control station of claim 11, wherein the server unit delivers all the requested data to a radio base station having a service area that contains a location at which the mobile radio terminal will stop, when the additional transmittable data amount is sufficient to transmit all the requested data to the mobile radio terminal.

Claim 14 (original): The radio control station of claim 11, wherein the server unit judges whether the mobile radio terminal will stop on the moving route or not, according to information on a signal change pattern of a traffic signal existing on the moving route.

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cont

Claim 15 (original): The radio control station of claim 9, wherein the server unit estimates the transmittable data amount by accounting for a time required for a re-transmission control and/or a redundant transmission control.

Claim 16 (original): The radio control station of claim 9, wherein the server unit delivers to each selected radio base station a part of the requested data corresponding to the delivery data amount for each selected radio base station and any non-received data of the requested data that were transmitted from other selected radio base stations earlier but not correctly received by the mobile radio terminal.

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✓  
Claims 17-20 (canceled)